## **IN THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

## **Listing of Claims**

1-19. (canceled)

20. (previously presented) An active reflector for use in indoor wireless data communication systems, comprising:

receiving means for receiving signals from a first mobile terminal; and transmitting means for transmitting the received signals to a second mobile terminal in an omni-directional way for direct communication with high data rates between mobile terminals in an indoor environment;

wherein the active reflector is mounted above the first and second mobile terminals in the indoor environment to provide for an indirect line-of-sight connection between the active reflector and each mobile terminal; and

wherein the active reflector does not comprise a baseband processing and does not influence the logical set-up of the indoor wireless data communication system; and

said active reflector further comprises a first antenna connected to the receiving means and a second antenna connected to the transmitting means;

wherein the first and the second antenna are circular polarized antennae with the same polarization direction.

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- 21. (previously presented) The active reflector according to claim 20, further comprising signal processing means between said receiving means and said transmitting means for processing received signals.
- 22. (previously presented) The active reflector according to claim 21, wherein the signal processing means comprises at least one gain block between the receiving means and the transmitting means.
- 23. (previously presented) The active reflector according to claim 22, wherein the gain block comprises more than one sub-gain block, wherein at least one of the sub-gain blocks can be switched off.
- 24. (previously presented) The active reflector according to claim 21, further comprising signal filtering means for filtering the received signals or the received and amplified signals.
- 25. (previously presented) The active reflector according to claim 20, further comprising one common antenna connected to the receiving means and the transmitting means.
- 26. (Canceled)
- 27. (previously presented) The active reflector according to claim 21, wherein the first and the second antenna have a uniform coverage pattern.

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28-29. (Canceled)

- 30. (previously presented) The active reflector according to claim 21, wherein said signal processing means comprises frequency translating means for changing the received signal frequency to another frequency, and transmitting the signal at the changed frequency to the first and second mobile terminals.
- 31. (previously presented) The active reflector according to claim 20, further comprising communication means for communicating data with at least one further active reflector.
- 32. (previously presented) The active reflector according to claim 20, wherein power for the active reflector is supplied by a power outlet for an indoor lamp.
- 33. (previously presented) The active reflector according to claim 20, wherein the active reflector is integrated into a lamp.
- 34. (currently amended) A wireless data communication system for direct communication between mobile terminals in an indoor environment <u>having</u> at least one active reflector, comprising:

receiving means for receiving signals from a first mobile terminal; and

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transmitting means for transmitting the received signals to a second mobile terminal in an omni-directional way for a direct communication with high data rates between mobile terminals in an indoor environment;

wherein the active reflector is mounted above the first and second mobile terminals in the indoor environment to provide for an indirect line-of-sight connection between the active reflector and mobile terminal; and

wherein the active reflector does not comprise a baseband processing and does not influence the logical set-up of the indoor wireless data communication system; and

said wireless data communication system further comprises a first antenna connected to the receiving means and a second antenna connected to the transmitting means;

wherein the first and the second antenna are circular polarized antennae with the same polarization direction.

- 35. (previously presented) The wireless direct data communication system according to claim 34, further comprising antennae connected to transceivers of said first and second mobile terminals.
- 36. (previously presented) The wireless direct data communication system according to claim 35, wherein the antennae of the transceivers of the mobile terminals are high gain antennae.
- 37. (previously presented) The wireless direct data communication system according to claim34, further comprising at least one further active reflector.

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- 38. (previously presented) The wireless direct data communication system according to claim
- 34, further comprising at least two active repeaters comprising antennae for communicating signals from and to a first active reflector to and from a second active reflector.

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